

BACTERIA AND SUGAR LOSS CONTROL IN A NON-FORMALDEHYDE ERA

G. Pool, V. Jaro, M. Stroebel
J. DeVarona, K. DeVries

Straube, Elmar and Hummel, Mathias, Dorr-Oliver Deutschland GmbH,
Lindenstraße 43, D-4048 Grevenbroich 1, Germany. - The New Generation of
Vertical Beet Extration Towers and Prescalders

The extraction process, the development and the construction details of Prescalder and Extraction Tower are explained. Beet sugar is extracted with the vertical Buckau-Wolf-System at currently available capacities between 1.200 to 11.000 metric t/d. Juice extraction is achieved with low raw juice draw off (less than 110 weight-% on beet) and low sugar losses (less than 0.25 weight-% on beet) at nominal processing capacity. The extraction system can be flexibly operated between 30 % and 120 % of nominal capacity. Minimum energy is required by the production of cold raw juice at temperatures of 12 - 15 Kelvin above the cossette temperature. Therefore it is possible to use the low-grade heat energy occuring at other stations of the sugar factory, which would otherwise be lost, to reheat the raw juice. The high proportion of dry substance (i.e. 10 to 13 %) in the exhausted cossettes reduces the energy consumption in the pulp presses.

is being

American Society of Sugar Beet Technologists
27th General Meeting
Anaheim, California

Section F
Factory Operations
Friday, March 5, 1993